

Claims

1.

A microwave oven comprising:

5 a cavity in which food is loaded; and
an upper duct having a main body mounted in the cavity,
a duct fixing member formed on a side of the main body and
fixed on a wall of the cavity, and an inclined portion
extending from an end of the main body and inclined at a
10 predetermined angle.

2.

15 The microwave oven according to claim 1, wherein the
upper duct is formed of synthetic resin material.

3.

20 The microwave oven according to claim 1, wherein the
duct fixing member includes a hook step formed on a front
portion of the upper duct.

4.

25 The microwave oven according to claim 1, wherein the
duct fixing member includes a hook step extending from an
end of the inclined portion to allow the upper duct to be
fixed on the front wall of the cavity.

5.

30 The microwave oven according to claim 1, wherein the
duct fixing member includes one or more fixing projections
extending from a rear end of the upper duct.

6.

35 The microwave oven according to claim 1, wherein the
duct fixing member includes one or more fixing projections
extending from a rear end of the upper duct to allow the

upper duct to be fixed on a rear wall of the cavity.

7.

5 The microwave oven according to claim 1, wherein the duct fixing member is integrally formed with the main body.

8.

10 The microwave oven according to claim 1, wherein the inclined portion is provided with one or more grasping portions a user can grasp.

9.

15 The microwave oven according to claim 1, wherein the cavity is provided at a rear wall with an insertion groove in which the duct fixing member can be inserted.

10.

20 The microwave oven according to claim 1, wherein the cavity is provided at a front wall with an insertion groove in which the duct fixing member can be inserted.

11.

A microwave oven comprising:

a cavity defining a food heating space;

25 a door for opening and closing a front wall of the cavity; and

30 an upper duct including a main body mounted in the cavity and an air curtain forming unit for preventing steam generated in the course of heating the food from contacting the door.

12.

35 The microwave oven according to claim 11, wherein the air curtain forming unit is formed on a front portion of the upper duct.

13.

The microwave oven according to claim 11, wherein the air curtain forming unit comprising:

5 one or more air-guide holes each formed in a rectangular shape; and

an air-guide for directing air at a predetermined inclined angle into the cavity through the air-guide holes.

10 14.

The microwave oven according to claim 11, wherein the air curtain forming unit comprising:

an air-guide hole through which air is directed into the cavity; and

15 an air-guide formed around the air-guide hole and extending downward, the air-guide being inclined rearward of the cavity.

15.

20 The microwave oven according to claim 14, wherein the air-guide has a \sqsubset -shaped section.

16.

25 The microwave oven according to claim 15, wherein the upper duct is detachably mounted on a top of the cavity.

17.

An upper duct of a microwave oven, comprising:

30 a duct main body detachably mounted in a cavity of the microwave oven;

a duct fixing member for fixing the duct main body on the cavity, the duct fixing member including a hook step formed on a front portion of the duct main body and a fixing projection formed on a rear portion of the duct main body;

35 an inclined portion extending from a front end of the

duct main body at a predetermined inclined angle; and
an air curtain forming unit formed on an end of the
duct main body, the air curtain forming unit including an
air-guide hole through which outer air is directed into the
cavity and an air-guide for directing the air from the air-
5 guide hole rearward of the cavity, the air-guide having a C-
shaped section.

18.

10 The upper duct according to claim 17, wherein the
inclined portion is provided with one or more grasping
portion a user can grasp.

19.

15 The upper duct according to claim 17, wherein the
inclined portion is provided with one or more blowing holes
through which outer air is directed into the cavity.

20.

20 An upper duct of a microwave oven having a cavity and a
door for opening and closing an opening of the cavity, the
upper duct comprising:

a duct main body mounted on a top of the cavity;

25 a duct fixing portion formed on a flange portion of the
duct main body; and

an air curtain forming unit formed on an end of the
duct main body to prevent water drops from forming on the
door,

30 wherein the upper duct is mounted by inserting a hook
step in a front wall of the cavity after inserting a fixing
projection in a rear wall of the cavity and is dismounted by
removing the fixing projection from the rear wall of the
cavity after the hook step is removed from the front wall of
the cavity.

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